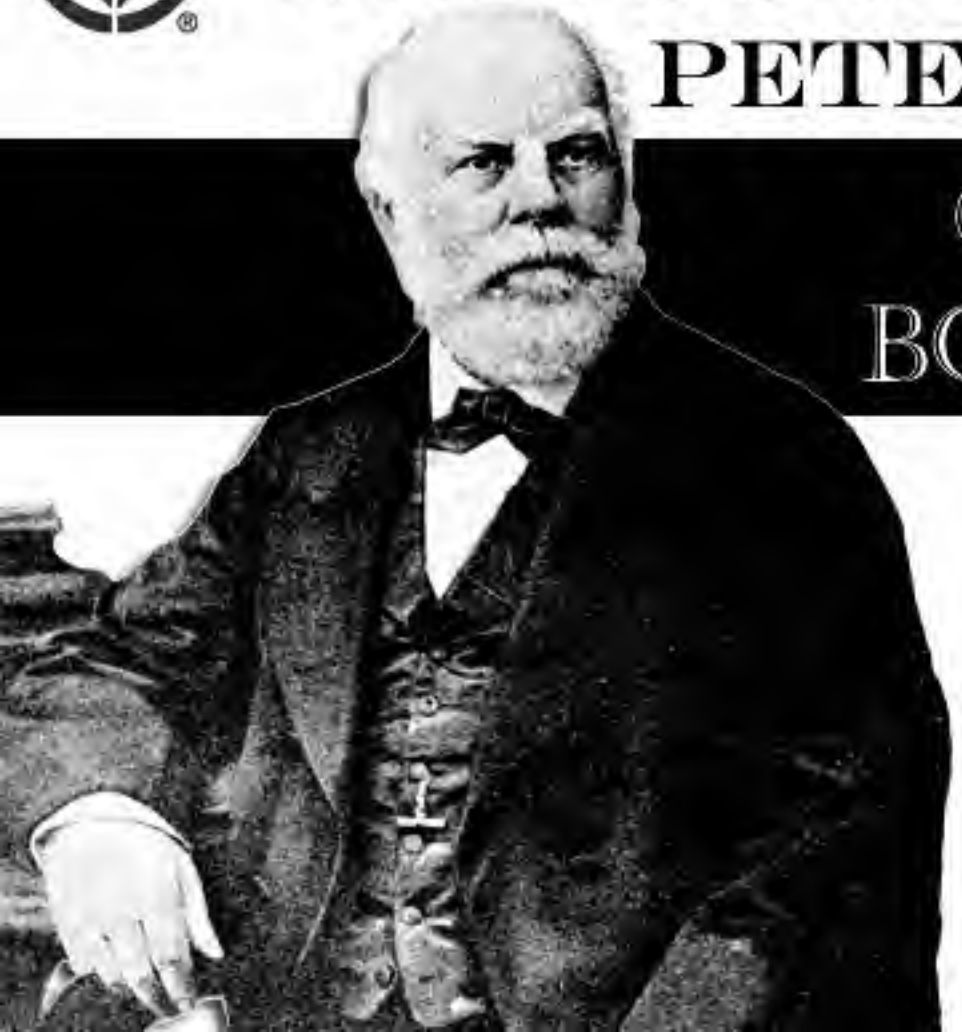
Missouri Botanical Garden
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George Engelmann Botanical Notebooks

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Lupinus Lawsonianus was first collected
1854 by William Murray and his brother
Andrew Murray described in Edinb.
New Philos. Journ., new series, April 1855

Sacramento. Cal. June 7 1879

If Decaisne Chamaecytisus Boissieri has Torrete
Gramblets, as Carrière & D. P. says it
must be = Genista! but the description Carrière
Quality et corymbis probably Genista and Chamaecytisus
the latter grows in low damp soil and is a tree which can be
compared to Sequoia — the former grows on arid, high ground.



10913

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3, C. Lawsoniana: Grüne Form. Mir sehr
viel gezogen. Das ist aber nur in einem
Zustande. Kömmt wirklich nur, und gesteckt
Beyon druf. Schmid Ri Jänichen Lüften und
Abstäuga zu Eiben.

Bolander Febr 9 1874



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Yr
regular Servt
Henry N. Bolander

C. Torreyana Sulte ist uns sein Tod

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Kreis fasst, während in anderen Gegenden wie in der mittleren Schweiz, in Süddeutschland u. s. w. sich das Fehlen der *nemoralis* nur auf Detailkarten eintragen liesse. Um so entschiedener tritt dann am Südabhang der Alpen überall wieder *nemoralis* auf, während *hortensis* hier nur wenige Fundorte hat und bald ganz aufhört. Der Vortragende sah z. B. während einer italienischen Reise *H. hortensis* zum letztenmal bei Hohenems (Vorarlberg) und traf sie auf der Rückreise erst wieder in Besançon. Noch höher als *hortensis* steigt *silvatica*; wo sie vorkommt, z. B. in der französischen Schweiz und Savoien, haben wir drei Höhenstufen: *nemoralis* so weit der Weinbau reicht, *hortensis* im übrigen angebauten Land und bis in die Tannenwälder hinein, *silvatica* in diesen und darüber auf den Alpenwiesen über der Baumgränze, übrigens so dass *silvatica* auch noch in das Gebiet der *hortensis* und diese in das der *nemoralis* herabsteigt. Eine zweite geographische Modifizirung der oben angegebenen Gränzen beruht auf der klimatischen Bevorzugung der Westküsten, in Norwegen, Irland und Westfrankreich: während in Norwegen selbst noch um Christiania und von da längs der ganzen

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während sie an der Ostseite Schwedens sonst n[illegible]r Calmar hinaus bekannt ist, und selbst die Insel Öland nur *hortensis* hat (Westerlund).

10915

Helix hortensis gehört demnach dem nördlicheren und mittlern Europa an, sie erreicht wohl nirgens das Mittelmer, kommt ihm aber in Südfrankreich und am obern Winkel des adriatischen Meeres am nächsten; im Allgemeinen findet sie in den Alpen und Pyrenäen ihre Südgränze, weiter nach Osten in Croatien und Bosnien, dann nach Norden aufsteigend im nördlichen Ungarn, in Galizien und im mittlern Russland. Sie trifft mit allen andern Arten vielmals zusammen, in weiter Ausdehnung mit *nemoralis*, mit *Austriaca* namentlich in Böhmen, Galizien und Russland. *Helix nemoralis* gehört dem mittlern und südwestlichen Europa an, hier allein, dort mit den drei andern. Die Südgränze ist schon oben angegeben. Die Ostgränze findet sie schon in Croatien und jenseits der Theiss, wo sie noch von Grosswardein angeführt wird; nach Nordosten scheint sie sich aber weiter ausgedehnt zu haben, über Volhynien nach Kiew

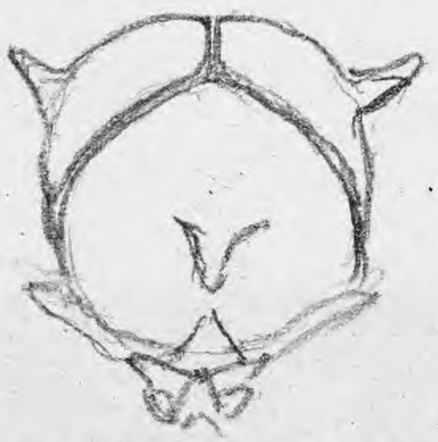
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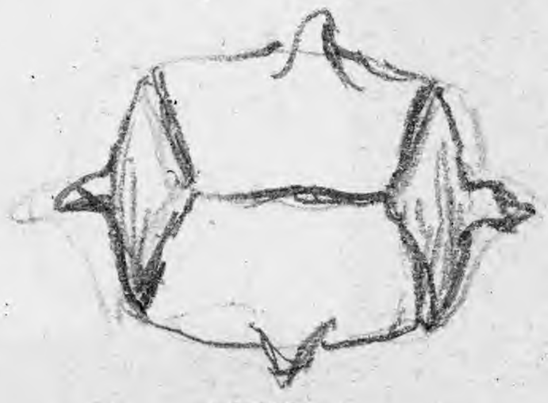
Thaspium barbinode

April 24 1874

×2



fruit of 4 carpels



Top



2 winged, 3 angled seed

apparently 3 in each vitta

therefore 12 vittæ, or a few less



Pollen

×415



×10

2-3 vittæ in each

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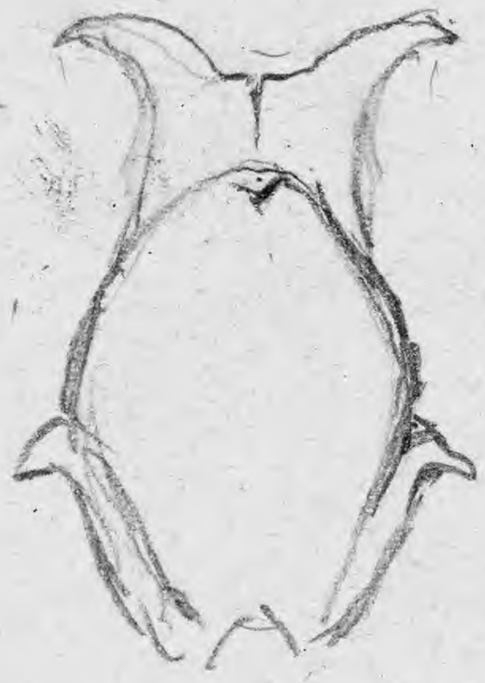
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Biota orientalis pendula

April 21st 1876



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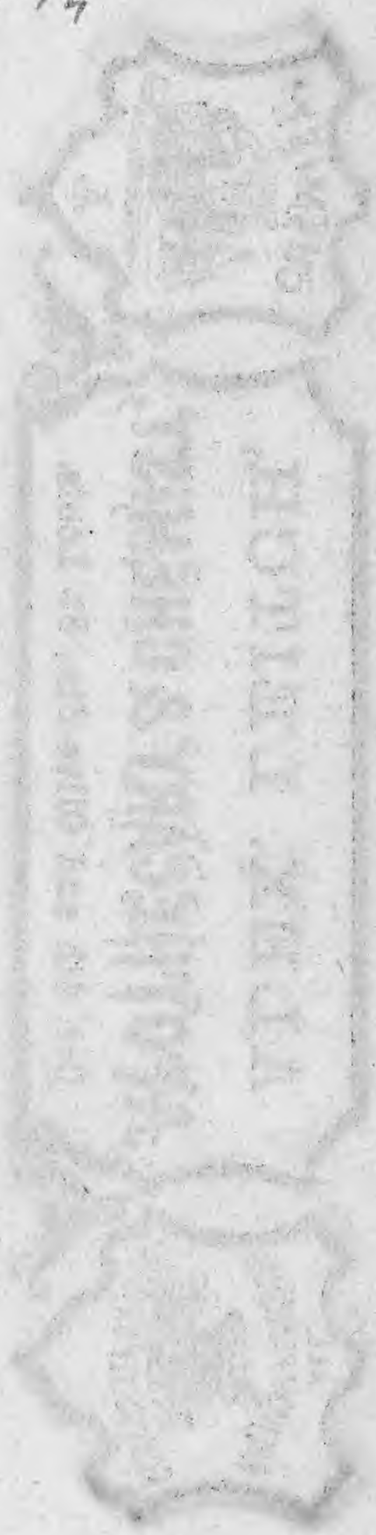
Biota orientalis April 24 1874

arnea



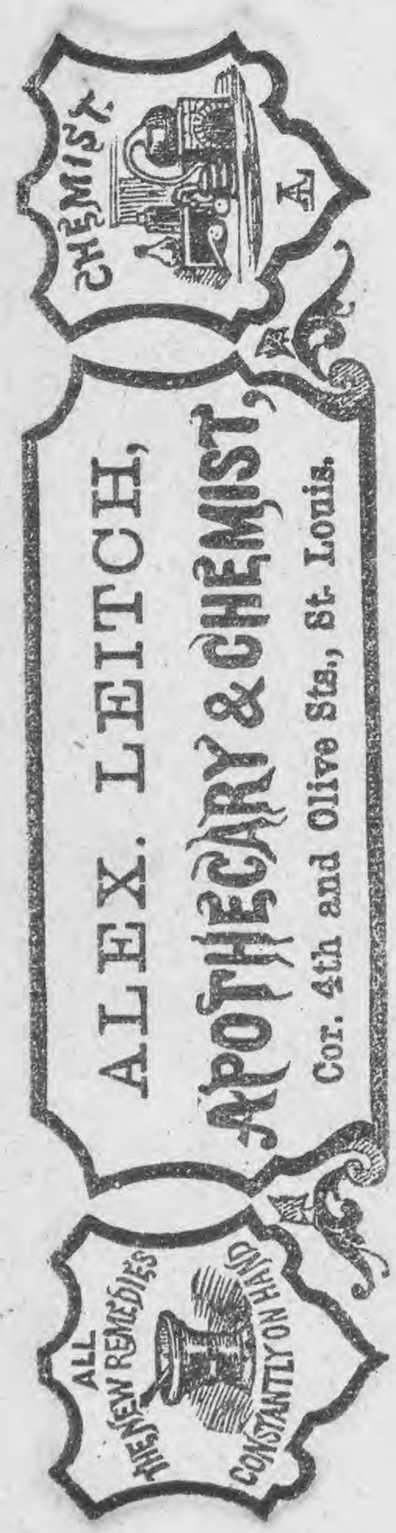


6 rather equal
pair of scales



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cm
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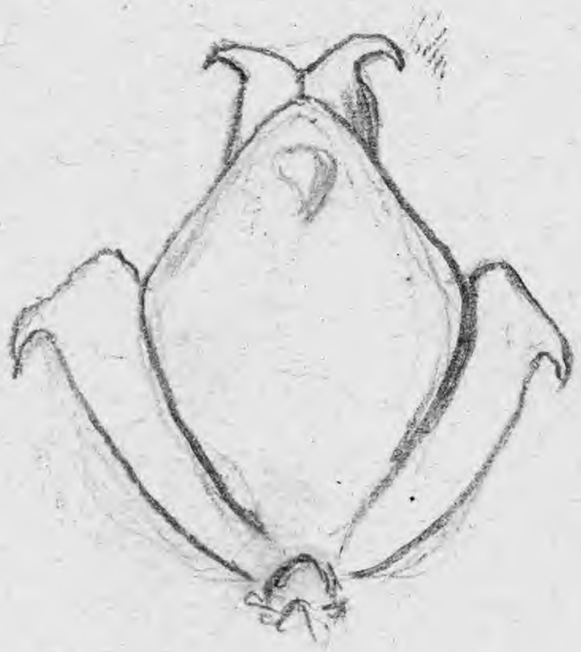


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Biota orientalis

April 24 1876



6 fruit scales
or carpels
lowest pair with 2 seeds
middle pair 1 seed
inner pair sterile
therefore regularly
6 seeds



seeds in pairs



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Betula orientalis var. ? Apr 8 1874

Mexico, Ulde № 77 = Herb Boerlin

monoecious

×10

×10

lateral

2 × 3 anther cells seen
6 fertile and
a pair of upper
rudimentary scales

tip of scale
×220

tip of leaf × 220

Pollen ×415

scad ×2

scad
×10

fruit ×2 6 pair
of scales

fruit

lateral

section of seed
×10



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JONES & LETCH

Druggists

Cor. Fifth & Market Sts. ST LOUIS, Mo.

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J. McKittrick & Co. 36 N. Main St.

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Chamaecyparis Lawsoniana

240 inches circumference

2 inches sapwood, bark 1 inch, black

a large stump

another has sap 1½ inches 22 years

the heartwood, next to [illegible], has

is 5¼ inch 50 years, upper 4½ next 50

3½, follows 50 years 5 inches

Tree 230 years old.

40

40 inches diameter at first fork,

bark 2 inches. Mertensia purpurea

Wood of Chamaecyparis is a favorite

hydrogen with the dust

of the sawmill to the mill

hands 13" dia 50-60' high

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Chamaecyparis Boursieri Decaisne
Ann Soc. Bot Fr. 1. 1854. p. 70
fide Carrière p. 142

"(decouvert 1853 par Boursier de la Savoie)"

= Cupressus Lawsoniana Murray

= Thuiopsis boothii fide Parlat.

fide Catal U. Hortic 1873-4

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In Pacific RR Report

Vol V Appendix p 27. & 215

are poor sketches of Yucca brevifolia

showing flower stalks!!

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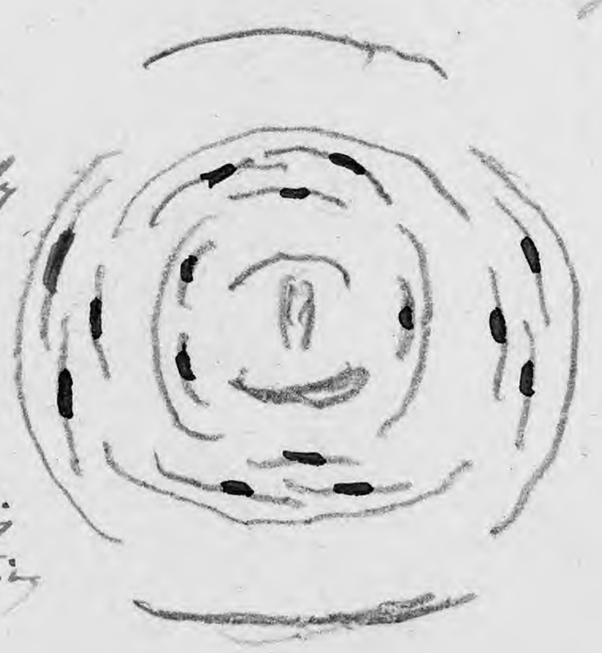
Thuja occidentalis
Minnesota

Thuja gigantea
Willamette Forr.

Nov 9 1881



smaller
cones nearly smooth
tip minute, scarcely
below rounded end
scales usually
4 pair and
abortive one in
center, or this
latter wanting



Larger
cones squarrose,
scales triangular
tipped below the rounded
end
scales usually 5 pair
and abortive one in
center



rare
exception

x 4



usually 2 pair of fertile scales
2- or sometimes 1-seeded
seeds notched above & below,

x 4



usually 3 pair of fertile scales
3 or sometimes 2 or 1 seeded
seeds mostly notched only above, larger

Cambridge

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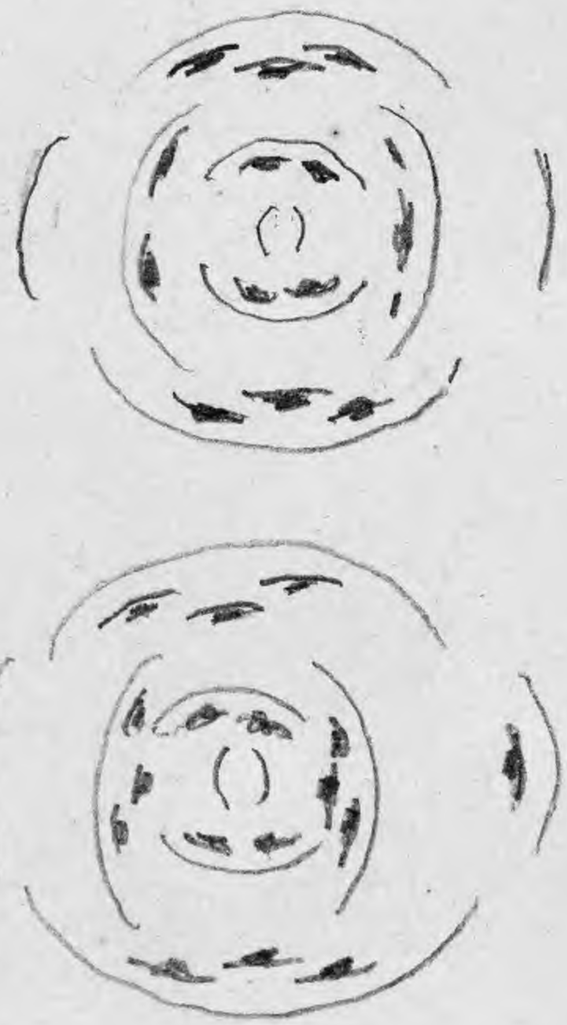
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Thuja standishii Carrière
cult Hort Hunnewell

Nov 20 1891







5 pair of scales
lowest mostly
upper always sterile

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Leitch & Corlies

DRUGGISTS

South West Corner Fifth and Market Streets

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1725-8

Bota

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The Western,

A Review of

EDUCATION

Bio

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Biota

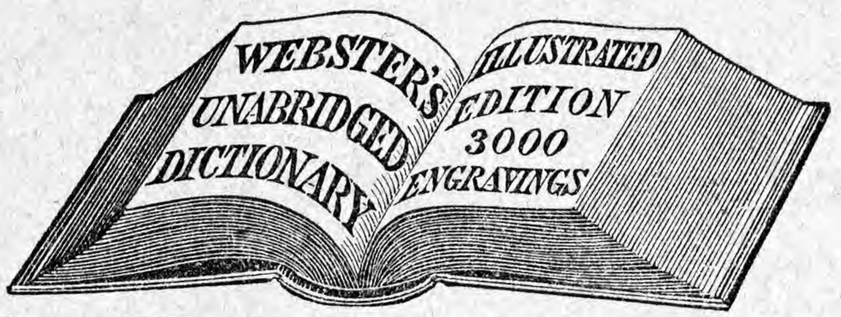
APRIL, 1872.

The Western,

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GET THE 

BEST.

Webster's Unabridged Dictionary.

10,000 Words & Meanings not in other Dictionaries. 3000 Engs. 1840 Pages Quarto. Price $12.

"GET THE BEST." "All young persons should have a standard DICTIONARY at their elbows. And while you are about it, get the best; that Dictionary is

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92901

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1715-22

Chamaecyparis
Thyoides

Vicia herbacea Kit
pumila Clark

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Spr. I, 638

Hungar. Transfyle. Thracia

H. Salzwed 1824

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1723-4

Thuja

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